



Zhitao Group

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Industrial Power Supplies

Product Specifications

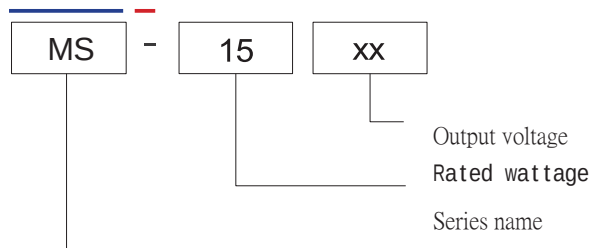
MS-15

- Product Category: 15W single output power supply
- Version number: ztao3.0
- Release date: 1st May 2025

Product Overview

MS-15-XX SERIES PRODUCTS FOR A 15W CHASSIS-TYPE INDUSTRIAL POWER SUPPLY, THE OUTPUT VOLTAGE INCLUDING 5V/12V/24V, ETC., CAN BE ADAPTED TO DIFFERENT LOAD APPLICATION REQUIREMENTS TO MEET THE NEEDS OF MOST INDUSTRIAL APPLICATIONS, Self-cooling Heat Dissipation, AS WELL AS A FULL RANGE OF PROTECTION, TO ENSURE THAT THIS SERIES OF PRODUCTS OF RELIABILITY AND STABILITY.

Model encoding



product characteristics

- International full-wide AC inputs
- Type of protection: short circuit/overload/overvoltage
- cooling by free air convection
- led indicator for Power on
- 100% full load burn-in test
- 3-year warranty



Areas of Application

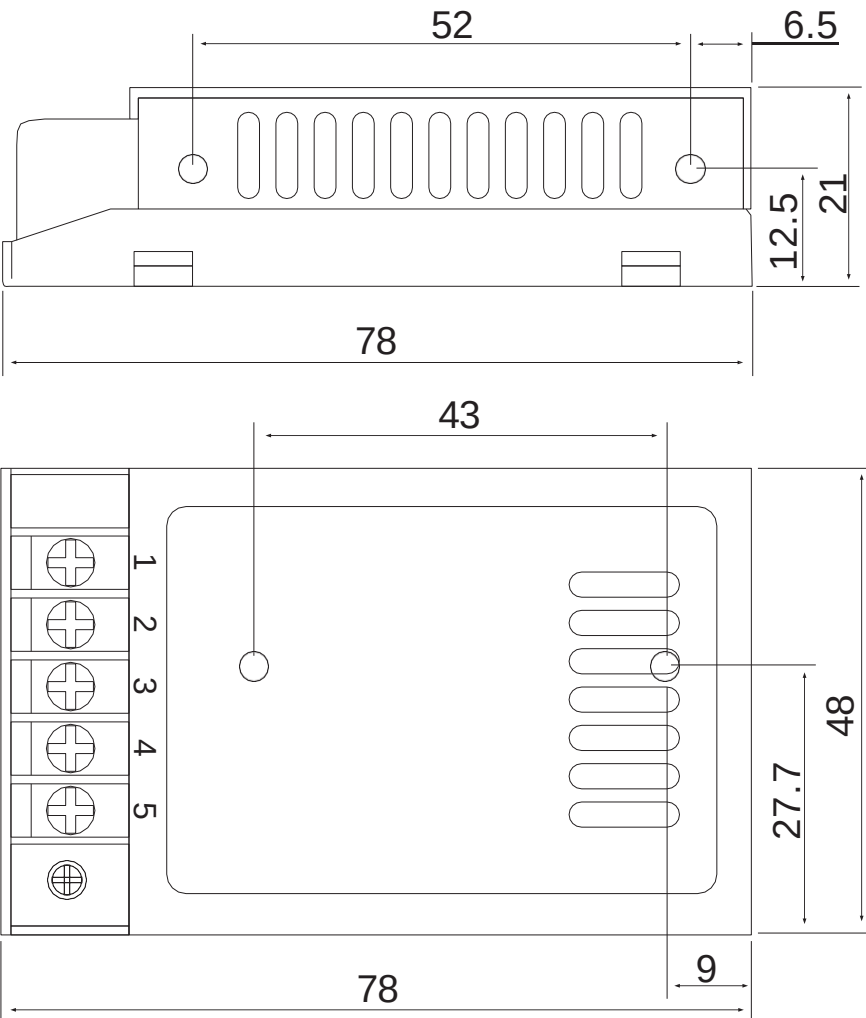
Industrial control, mechanical and electrical, electronic instruments, industrial automation, electronic equipment, semiconductor equipment, etc. (except information technology equipment)

01-01

electrical specifications

Model		MS-15-5	MS-15-12	MS-15-15	MS-15-24	MS-15-36	MS-15-48
Output	DC output voltage	5V	12V	15V	24V	36V	48V
	Rated current	3A	1.25A	1A	0.63A	0.36A	0.32A
	Current range	0~3A	0~1.25A	0~1A	0~0.63A	0~0.36A	0~0.32A
	Rated power	15W	15W	15W	15.12W	15.12W	15.36W
	Ripple & Noise (Max)	120mVp-p	120mVp-p	120mVp-p	150mVp-p	200mVp-p	200mVp-p
	voltage adjustment range	4.5~5.5V	10.2~13.8V	13.5~16.5V	21.6~26.4V	32.4~39.6V	43.2~52.8V
	voltage accuracy	±1%	±1%	±1%	±1%	±1%	±1%
	Linear adjustment rate	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%
	Load Adjustment Ratio	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%
	start-up & rise time	600ms,25ms/230VAC 1000ms,30ms/115VAC(at full load)					
	Holding time	20mS/230VAC;18mS/115VAC (at full load)					
Input	Input Voltage	85~264VAC 120~370VDC					
	Input frequency	50~60HZ					
	Efficiency	78%	80%	80%	86%	87%	87%
	Input current	0.5A/115VAC 0.2A/230VAC					
	Leakage current	< 1mA/240VAC					
Protection	overload protection	125~150% of rated power Protection mode: hiccup protection, automatic recovery after removal of abnormal conditions					
	Overvoltage protection	5.9~7.3V	13.8~16.2V	18.7~21.7V	28.8~33.6V	41.4~48.6V	55.2~64.8V
		Protect mode: shut down the output voltage, restart to recover					
Environment	Operating temperature	-20°C ~+65°C					
	Operating humidity	20~90%rh No condensation					
	Storage temperature/humidity	-40~+80°C 10~95%rh, no condensation					
	Vibration-resistant	10~500HZ, 5G 10 MIN/CYCLE, X, Y, Z 60 MIN EACH					
Security	pressure resistance	Input to output :1.5kvac; Input to ground :1.5kvac; Output to ground :500vac					
	Insulation impedance	Input to Output, Input to Ground, Output to Ground :100 Ohms/500VDC/25°C /70%RH					
Others	Product dimensions	78*48*21mm (L*W*H)					
	Packaging	0.1kg/pcs					
Remarks		1. All parameters are measured at 230vac input, rated load and 25°C when not specified. 2. Ripple and noise voltages were measured on a 20MHz bandwidth oscilloscope with 0.1 μ and 47 μ capacitors at the end of a 12-inch twisted pair cable, measured at 20MHZ bandwidth. 3. Accuracy: Includes setting error, linear adjustment ratio and load adjustment ratio. 4. Linear Adjustment Ratio Measurement Method: Test from low voltage to high voltage at rated load 5. Load Adjustment Ratio Measurement Method: From 0% to 100% of rated load 6. Start-up time is measured at cold start, fast and frequent switching on and off may increase the start-up time. 7. When operating at altitudes higher than 2000 metres (6500ft): the operating environment needs to be reduced by 5°C / 1000 metres					

Outline and Mounting Dimensions (mm)



Terminal Pin No.Assignment

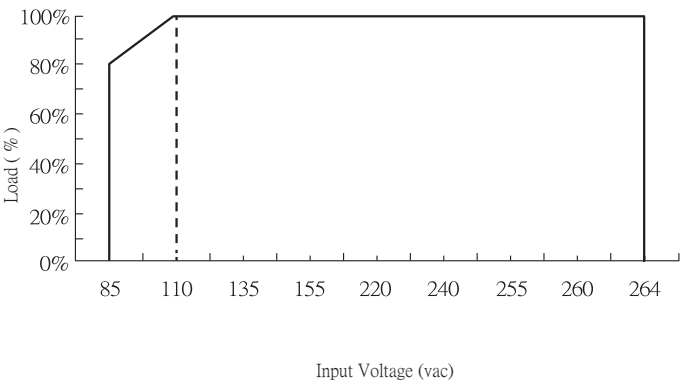
pin No	Assignment
1	AC/L(DC-)
2	AC/N(DC+)
3	FG (⊕)
4	DC OUTPUT -V
5	DC OUTPUT +V

Pinout	Function	
L	AC LINE	Screw:m3*8 Torque:8Kgf.cn(0.8N.m)
N	AC NETURAL	
⊕	EARTH	
-V	DC output -	Screw:m3*8 Torque:8Kgf.cn(0.8N.m)
+V	DC output +	

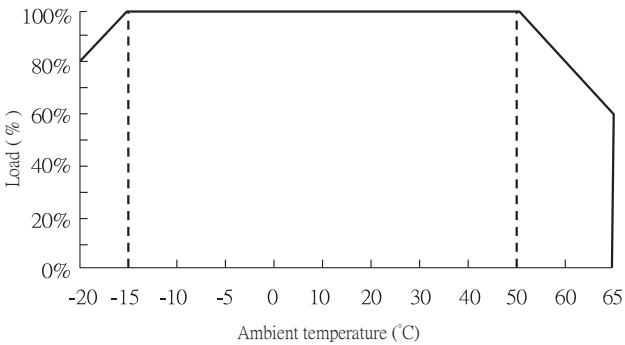
8-m3 Customer system
mounting holes mounting
screws:m3
Installation torque: 8Kgf.cn (0.8N.m)
screws into the housing is not more
than 3mm
Remarks:
Unit: mm [inch]; unlabelled tolerances are ± 0.5 [± 0.020].

Characteristic Curve

Input Voltage vs Output Load



Ambient temperature vs. output load



Remarks:

- 1.If you need to know more detailed test data, please contact our technical support to get the application notes of the corresponding products.
- 2.This product is suitable for use in a natural air convection environment, if used in a closed environment, please contact our technical support staff.